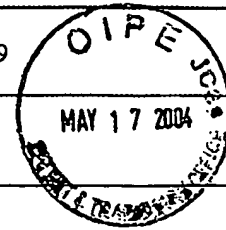


## INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES

Atty. Docket No.  
DP-308152Serial No.  
10/763,499Applicant  
THOMAS WOLFGANG NEHLFiling Date  
January 23, 2004

Group



## U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	3,876,456	04/08/1975	Ford, et al.			
	3,996,398	12/1976	Manfredi			
	5,217,746	06/1993	Lenling, et al.			
	5,328,751	07/1994	Komorita, et al.			
	5,362,523	11/1994	Gorynin, et al.			
	5,465,627	11/14/1995	Garshelis			
	5,493,921	02/27/1996	Alasafi			
	5,520,059	05/28/1996	Garshelis			
	5,525,570	06/11/1996	Chakraborty, et al.			
	5,585,574	12/17/1996	Sugihara, et al.			
	5,683,615	11/04/1997	Munoz			
	5,706,572	01/13/1998	Garshelis			
	5,708,216	01/13/1998	Garshelis			
	5,725,023	03/10/1998	Padula			
	5,887,335	03/30/1999	Garshelis			
	5,889,215	03/30/1999	Kilmartin, et al.			
	5,907,105	05/25/1999	Pinkerton			
	5,993,565	11/30/1999	Pinkerton			

Examiner

Date Considered

6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent &amp; Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 on:

Date: 5/12/04

Signature:

Name: Lindsey Dickerson

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Atty. Docket No. DP-308152	Serial No. 10/763,499
-------------------------------	--------------------------

Applicant THOMAS WOLFGANG NEHL
-----------------------------------

Filing Date January 23, 2004	Group
---------------------------------	-------

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	6,047,605	04/11/2000	Garshelis			
	6,098,741	08/08/2000	Gluf			
	6,119,667	09/19/2000	Boyer, et al.			
	6,145,387	11/04/2000	Garshelis			
	6,149,736	11/21/2000	Sugihara			
	6,159,430	12/12/2000	Foster			
	6,189,663	02/20/2001	Smith, et al.			
	6,260,423 B1	07/17/2001	Garshelis			
	6,261,703	07/2001	Sasaki, et al.			
	6,283,859	09/04/2001	Carlson, et al.			
	6,289,748	09/18/2001	Lin, et al.			
	6,338,827	01/18/2002	Nelson, et al.			
	6,344,237	02/2002	Kilmer, et al.			
	6,374,664	04/23/2002	Bauer			
	6,442,039	08/27/2002	Schreiber			
	6,422,360	07/26/2002	Oliver, et al.			
	6,424,896B1	07/23/2002	Lin			
	6,446,857	09/10/2002	Kent, et al.			

Examiner Date Considered

6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609;  
Draw line through citation if not in conformance and not considered. Include copy of this form with next  
communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent &amp; Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is  
being deposited with the United States Postal  
Service as first class mail in an envelope  
addressed to: Commissioner for Patents  
P.O. Box 1450 Alexandria, Virginia 22313-1450 on:

Date: 5/12/04  
Signature:   
Name: Lindsey Dickerson

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Atty. Docket No. DP-308152	Serial No. 10/763,499
-------------------------------	--------------------------

Applicant THOMAS WOLFGANG NEHL
-----------------------------------

Filing Date January 23, 2004	Group
---------------------------------	-------

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	6,465,039	10/15/2002	Pinkerton, et al.			
	6,485,852	11/26/2002	Miller, et al.			
	6,488,115B1	12/03/2002	Ozsoylu			
	6,490,934B2	12/10/2002	Garshelis			
	6,511,135	01/28/2003	Ballinger, et al.			
	6,537,507	03/23/2003	Nelson, et al.			
	6,551,734	04/22/2003	Simpkins, et al.			
	6,553,847	04/29/2003	Garshelis			
	6,615,488	09/09/2003	Anders			
	6,623,704	09/23/2003	Roth			
	6,623,796	09/23/2003	VanSteenkiste, et al.			
	2002/0071906	06/2002	Rusch			
	2002/0073982	06/2002	Shaikh, et al.			
	2002/0110682	08/2002	Brogan, et al.			
	2002/0112549	08/22/2002	Cheshmehdoost, et al.			
	2002/0182311	12/2002	Leonardi, et al.			
	2003/0039856	02/2003	Gillispie, et al.			
	2003/0190414	10/2003	VanSteenkiste			
	2003/0219542	11/2003	Ewasysyn, et al.			

Examiner J. J. [Signature] Date Considered 6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent & Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is  
being deposited with the United States Postal  
Service as first class mail in an envelope  
addressed to: Commissioner for Patents  
P.O. Box 1450 Alexandria, Virginia 22313-1450 on:

Date: 5/12/04  
Signature: [Signature]  
Name: Lindsey Dickerson

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Atty. Docket No. DP-308152	Serial No. 10/763,499
-------------------------------	--------------------------

Applicant THOMAS WOLFGANG NEHL
-----------------------------------

Filing Date January 23, 2004	Group
---------------------------------	-------

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No
03009934	02/06/2003	WO			Yes
04180770	06/26/1992	JP			Abstract Only
04243524	08/31/1992	JP			Abstract Only
55031161	03/05/1980	JP			Abstract Only
61249541	11/06/1986	JP			Abstract Only
98/22639	05/1998	WO			
1245854A2	02/10/2002	EP			Yes

Examiner Jan Jent Date Considered 6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent &amp; Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 on:

Date: 5/12/04  
 Signature: Lindsey Dickerson  
 Name: Lindsey Dickerson

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Atty. Docket No.	Serial No.
DP-308152	10/763,499

Applicant
THOMAS WOLFGANG NEHL

Filing Date	Group
January 23, 2004	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Dykhuizen, et al.; *Gas Dynamic Principles of Cold Spray*; Journal of Thermal Spray Technology; 06-98; pp. 205-212

McCune, et al; *An Exploration of the Cold Gas-Dynamic Spray Method for Several Materials Systems*

Ibrahim, et al; *Particulate Reinforced Metal Matrix Composites – A Review*; Journal of Materials Science 26; pp. 1137-1156

I.J. Garshelis, et al; *A Magnetoelastic Torque Transducer Utilizing a Ring Divided into Two Oppositely Polarized Circumferential Regions*; MMM 1995; Paper No. BB-08

I.J. Garshelis, et al; *Development of a Non-Contact Torque Transducer for Electric Power Steering Systems*; SAE Paper No. 920707; 1992; pp. 173-182

Boley, et al; *The Effects of Heat Treatment on the Magnetic Behavior of Ring – Type Magnetoelastic Torque Sensors*; Proceedings of Sicon '01; November 2001

J.E. Snyder, et al; *Low Coercivity Magnetostrictive Material with Giant Piezomagnetic d33*, Abstract Submitted for the MAR99 Meeting of the American Physical Society

McCune, et al; *An Exploration of the Cold Gas-Dynamic Spray Method...*; Proc. Nat. Thermal Spray Conf. ASM 9/1995

Pavel Ripka, et al; *Pulse Excitation of Micro-Fluxgate Sensors*, IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 1998-2000

Trifon M. Liakopoulos, et al; *Ultrahigh Resolution DC Magnetic Field Measurements Using Microfabricated Fluxgate Sensor Chips*, University of Cincinnati, Ohio, Center for Microelectronic Sensors and MEMS, Dept. of ECECS pp. 630-631

Derac Son, *A New Type of Fluxgate Magnetometer Using Apparent Coercive Field Strength Measurement*, IEEE Transactions on Magnetics, Vol. 25, No. 5, September 1989, pp. 3420-3422

O. Dezaury, et al; *Printed Circuit Board Integrated Fluxgate Sensor*, Elsevier Science S. A. (2000) Sensors and Actuators, Pp. 200-203

How, et al; *Generation of High-Order Harmonics in Insulator Magnetic Fluxgate Sensor Cores*, IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 2448-2450

Examiner  Date Considered

6/22/05

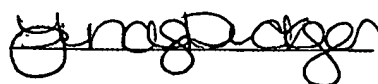
\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent & Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 on:

Date: 5/12/04

Signature:



Name: Lindsey Dickerson

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Atty. Docket No.	Serial No.
DP-308152	10/763,499

Applicant
THOMAS WOLFGANG NEHL

Filing Date	Group
January 23, 2004	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Moreland, *Fluxgate Magnetometer*, Carl W. Moreland, 199-2000, pp. 1-9

Ripka, et al; *Symmetrical Core Improves Micro-Fluxgate Sensors*, Sensors and Actuators, Version 1, August 25, 2000, pp. 1-9

Hoton How, et al; *Development of High-Sensitivity Fluxgate Magnetometer Using Single-Crystal Yttrium Iron Garnet Thick Film as the Core Material*, *ElectroMagnetic Applications, Inc.*

Ripka, et al; *Microfluxgate Sensor with Closed Core*, submitted for Sensors and Actuators, Version 1, June 17, 2000

Henriksen, et al; *Digital Detection and Feedback Fluxgate Magnetometer*, Meas. Sci. Technol. 7 (1996) pp.897-903

Cetek 930580 Compass Sensor, *Specifications*, June 1997

Geyger, *Basic Principles Characteristics and Applications*, Magnetic Amplifier Circuits, 1954, pp. 219-232

Examiner

Date Considered

6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent & Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is being deposited with the United States Postal

Service as first class mail in an envelope addressed to: Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450 on:

Date:

5/12/04

Signature:

Name:

Lindsey Dickerson

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Submitted by:	Atty. Docket No. DP-308152	Serial No.
SCOTT A. MCBAIN Delphi Technologies, Inc.,	Applicant Thomas W. Nehl et al	
Reg. No. 37181	Filing Date Herewith	Group

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	3,100,724	08-14-1964	Rocheville			
	3,993,411	11-23-1976	Babcock et al			
	4,263,335	04-21-1981	Wagner et al			
	4,606,495	08-19-1986	Stewart, Jr., et al			
	4,891,275	01-02-1990	Knoll			
	4,939,022	07-03-1990	Palanisamy			
	5,187,021	02-16-1993	Vydra et al			
	5,271,965	12-21-1993	Browning			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Van Steenkiste, et al; <i>Kinetic Spray Coatings</i> ; in <i>Surface &amp; Coatings Technology III</i> ; 1999; pp.62-71
Liu, et al; <i>Recent Development in the Fabrication of Metal Matrix-Particulate Composites Using Powder Metallurgy Techniques</i> ; in <i>Journal of Material Science</i> 29; 1994; pp. 1999-2007; National University of Singapore, Japan
Papyria; <i>The Cold Gas-Dynamic Spraying Method a New Method for Coatings Deposition Promises a New Generation of Technologies</i> ; Novosibirsk, Russia.
McCune, al; <i>Characterization of Copper and Steel Coatings Made by the Cold Gas-Dynamic Spray Method</i> ; National Thermal Spray Conference.

Examiner  Date Considered 6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent & Trademark Office-US Dept. of Commerce

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Submitted by:	Atty. Docket No. DP-308152	Serial No.
SCOTT A. MCBAIN Delphi Technologies, Inc.,	Applicant Thomas W. Nehl et al	
Reg. No. 37181	Filing Date Herewith	Group

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5,302,414	04-12-1994	Alknimor et al			
	5,340,015	08-23-1994	Hira et al			
	5,395,679	03-07-1995	Myers et al			
	5,424,101	06-13-1995	Atkins et al			
	5,464,146	11-07-1995	Zalvzec et al			
	5,476,725	12-19-1995	Papich et al			
	5,527,627	06-18-1996	Lautzenhiser et al			
	5,593,740	01-14-1997	Strumbon et al			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Alkhimov, et al; A Method of "Cold" Gas-Dynamic Deposition; Sov. Phys. Kokl. 36(12; December 1990; pp.1047-1049
Dykuizen, et al; Impact of High Velocity Cold Spray Particles; in Journal of Thermal Spray Technology 8(4); 1999; pp.559-564
Swartz, et al; Thermal Resistance At Interfaces; Appl. Phys. Lett., Vol. 51, No 26,28; December 1987; pp. 2201-2202.
Davis, et al; Thermal Conductivity of Metal-Matrix Composites; J.Appl. Phys. 77 (10), May 15, 1995; pp. 4494-4960.

Examiner  Date Considered 6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent & Trademark Office-US Dept. of Commerce

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_



**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Submitted by:	Atty. Docket No. DP-308152	Serial No.
SCOTT A. MCBAIN Delphi Technologies, Inc.,	Applicant Thomas W. Nehl, et al	
Reg. No. 37181	Filing Date Herewith	Group

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5,795,626	08-18-1998	Gabel et al			
	5,854,966	12-29-1998	Kampe et al			
	5,875,626	03-02-1999	Singer et al			
	5,894,054	04-13-1999	Poruchuri et al			
	5,907,761	05-25-1999	Tohma et al			
	5,952,056	09-14-1999	Jordan et al			
	5,989,310	11-23-1999	Chu et al			
	6,051,045	04-18-2000	Narula et al			
	6,051,277	04-18-2000	Claussen et al			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Stoner et al; <i>Measurements of the Kapitza Conductance between Diamond and Several Metals</i> ; Physical Review Letters, Volume 68, Number 10; March 9, 1992; pp. 1563-1566.
Stoner et al; <i>Kapitza conductance and heat flow between solids at temperatures from 50 to 300K</i> ; Physical Review B, Volume 48, Number 22, December 1, 1993-II; pp. 16374;16387.
Johnson et al; <i>Diamond/Al metal matrix composites formed by the pressureless metal infiltration process</i> ; J. Mater. Res., Vol. 8, No. 5, May 1993; pp. 11691173.
Rajan et al; <i>Reinforcement coatings and interfaces in Aluminium Metal Matrix Composites</i> ; pp. 3491-3503.

Examiner

Date Considered

6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent &amp; Trademark Office-US Dept. of Commerce

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

No. 0651-0011(12/31/86)

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Submitted by:	Atty. Docket No.	Serial No.
	DP-308152	
SCOTT A. MCBAIN Delphi Technologies, Inc.,	Applicant	
	Thomas W. Nehl et al	
Reg. No. 37181	Filing Date	Group
	Herewith	

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	6,033,622	03-07-2000	Maruyama			
	6,074,737	06-13-2000	Jordan et al			
	6,129,948	10-10-2000	Plummet et al			
	6,139,913	10-31-2000	Van Steenkiste et al			
	6,283,386	09-04-2001	Van Steenkiste et al			
	5,308,463	05-03-1994	Hoffmann et al			
	5,648,123	07-15-1997	Kuhn et al			
	5,965,193	10-12-1999	Ning et al			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

LEC Manufacturing and Engineering Capabilities; Lanxide Electronic Components, Inc.
Dykhuizen et al; <i>Gas Dynamic Principles of Cold Spray</i> ; Journal of Thermal Spray Technology; 06-98; pp. 205-212.
McCune et al; <i>An Exploration of the Cold Gas-Dynamic Spray Method For Several Materials Systems</i> ;
Ibrahim et al; <i>Particulate Reinforced Metal Matrix Composites - A Review</i> ; Journal of Materials Science 26; pp. 1137-1156.

Examiner J. J. [Signature] Date Considered 6/22/05

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (als PTO-1449) Patent &amp; Trademark Office-US Dept. of Commerce

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Atty. Docket No. DP-308152	Serial No. 10/763499
-------------------------------	-------------------------

Applicant THOMAS WOLFGANG NEHL
-----------------------------------

Filing Date January 23, 2004	Group
---------------------------------	-------

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
JD	2,861,900	11/25/1958	Smith, et al.			
	4,416,421	11/22/1983	Browning, et al.			
	6,402,050	06/11/2002	Kashirin, et al.			
	2002/0102360	08/01/2002	Subramanian, et al.			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No
42 36 911	12/23/1993	Germany			X
199 59 515	06/13/2001	Germany			X
100 37 212	01/17/2002	Germany			X
101 26 100	12/05/2002	Germany			X
1 160 348	12/05/2001	EP			X
02/052064	01/04/2002	WIPO Publication			X Abstract

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

European Search Report dated 29 January 2004 and it's Annex.
--

Examiner <i>J. J. [Signature]</i>	Date Considered <i>6/22/05</i>
-----------------------------------	--------------------------------

\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (also PTO-1449) Patent &amp; Trademark Office-US Dept. of Commerce

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, Virginia 22313-1450 on:

Date: *5/12/04*Signature: *[Signature]*

Name: Lindsey Dickerson